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Results

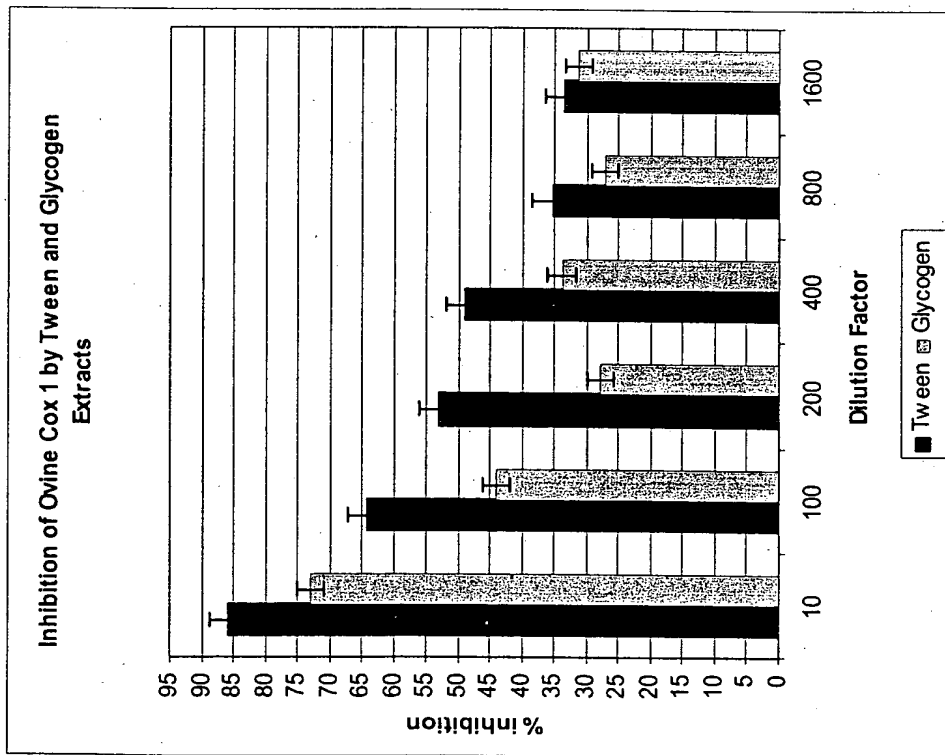


Figure 1. 50% inhibition of Cox-1 was seen between the 1:200 and 1:400 dilutions of the Tween extract and between the 1:10 and 1:100 dilutions of the Glycogen extract.

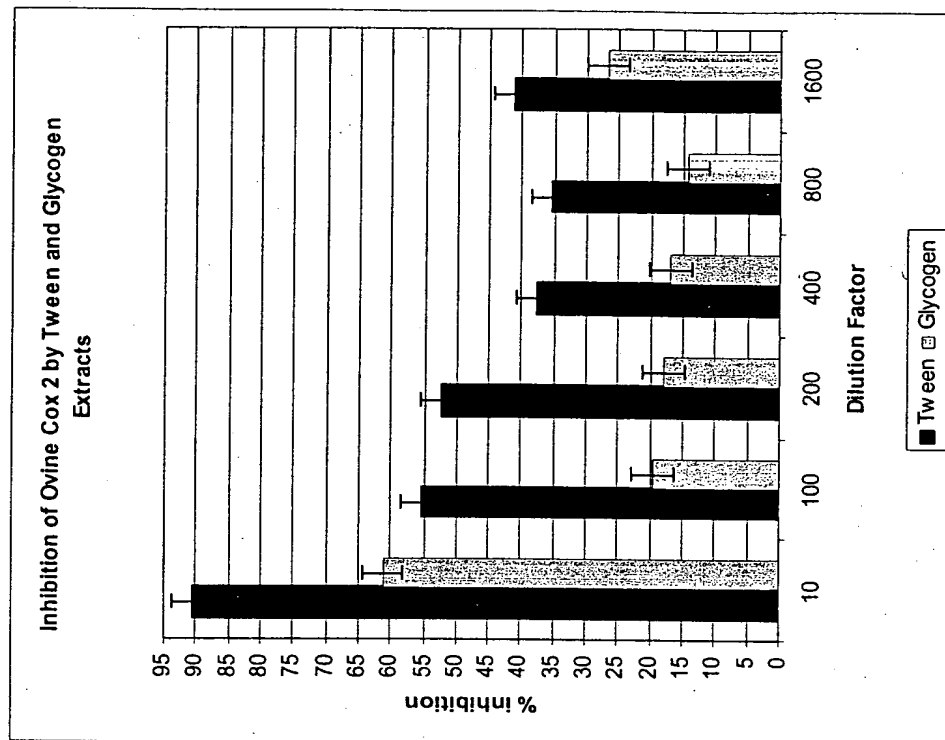


Figure 2. 50% inhibition of Cox-2 was seen between the 1:200 and 1:400 dilutions of the Tween extract and between the 1:10 and 1:100 dilutions of the Glycogen extract

Results (cont.)

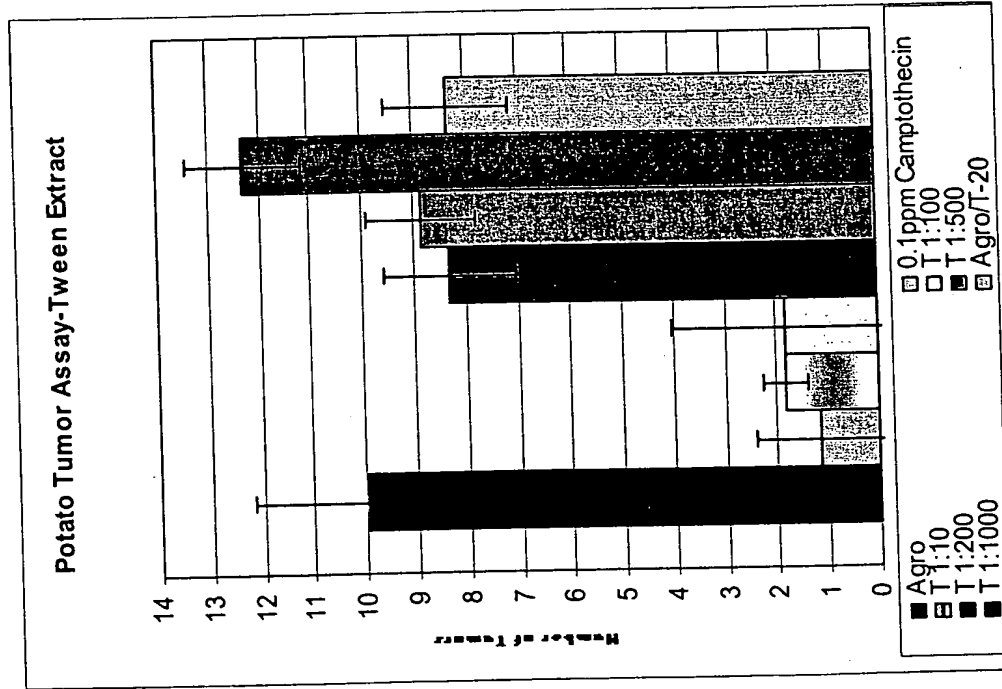


Figure 3. Significant inhibition of tumors was seen at the 1:10 and 1:100 dilutions of Tween extract

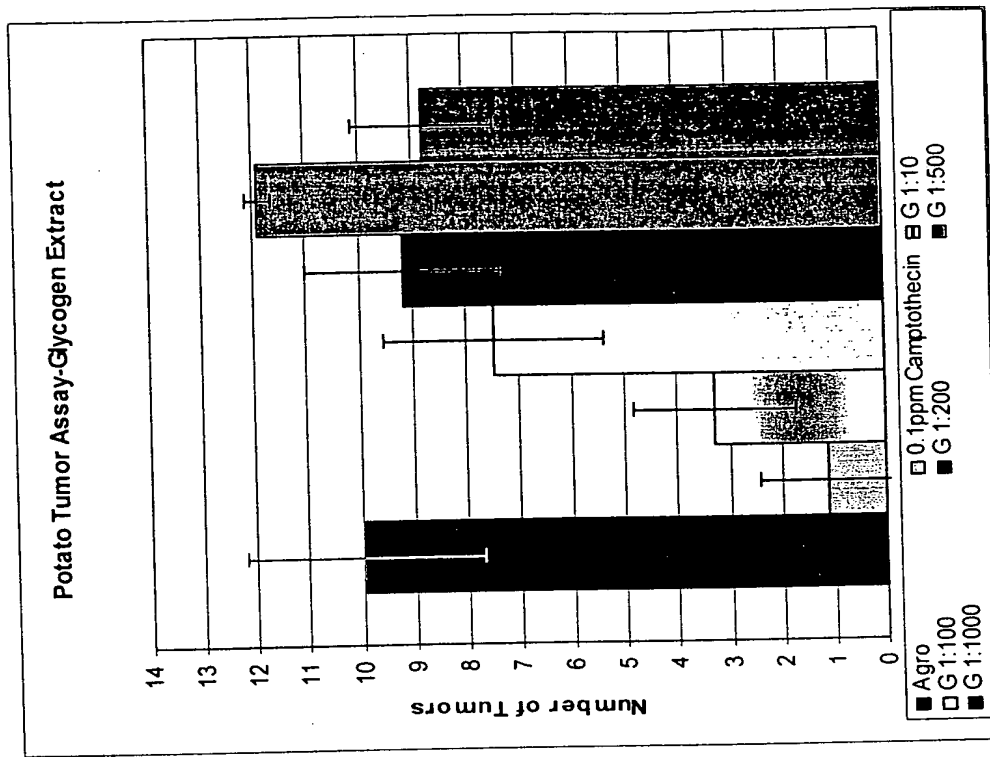


Figure 4. Significant inhibition of potato tumors was seen with the 1:10 concentration of the Glycogen extract.

Results (cont.)

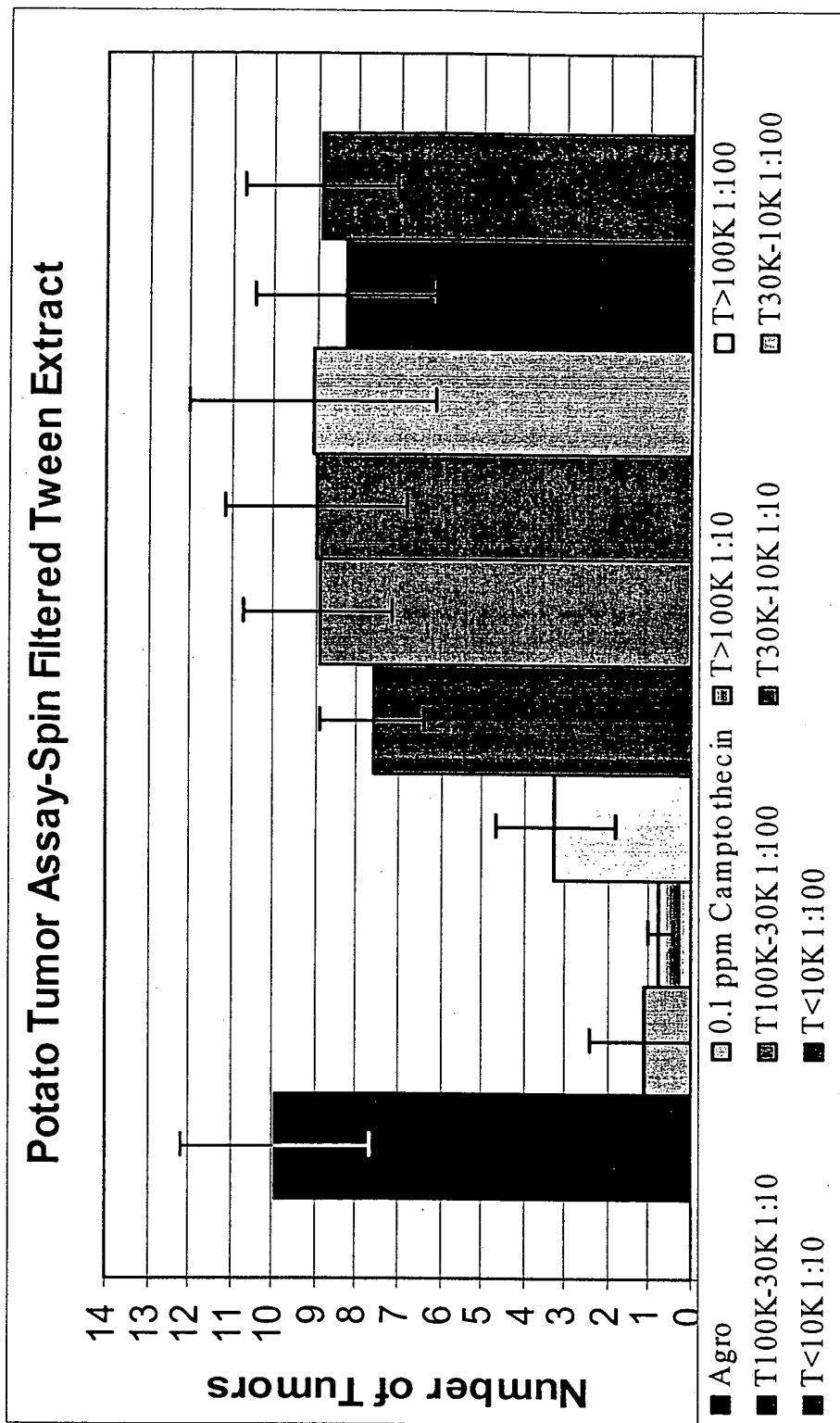


Figure 5. The fraction of Tween extract retained by the 100K filter showed significant inhibition of potato tumors at both the 1:10 and 1:100 concentrations.

Results (cont.)

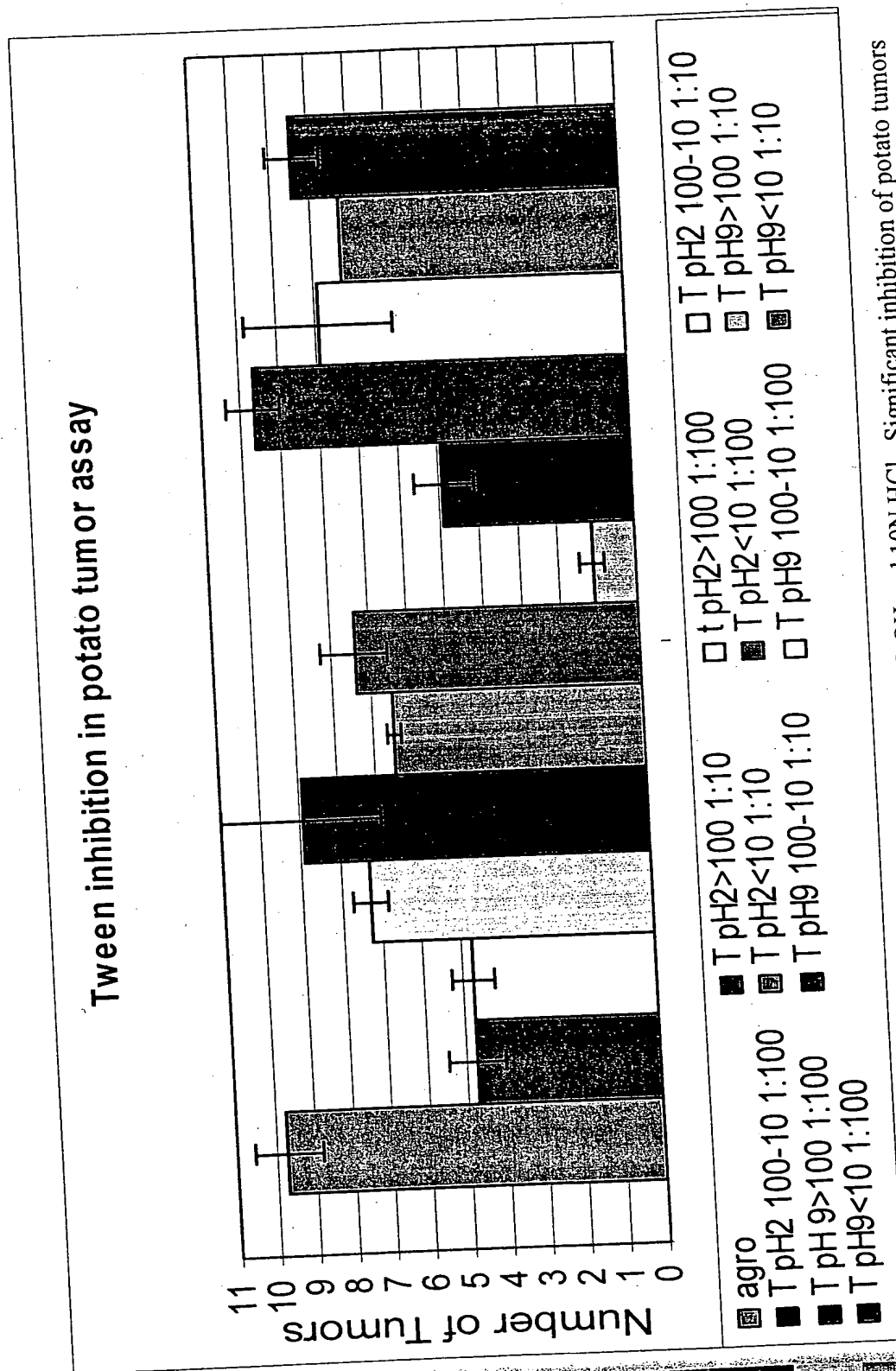


Figure 6. The pH of the Tween extract was altered using 10N NaOH and 10N HCl. Significant inhibition of potato tumors occurred at both the 1:10 and 1:100 concentrations of the pH 2 >100 K sample, at the 1:10 concentration of the pH 2 100K-10K sample, at the 1:10 and 1:100 concentrations of the pH 2 <10K sample, and at the 1:10 and 1:100 concentrations of the pH 9 >100 K sample.

Results (cont.)

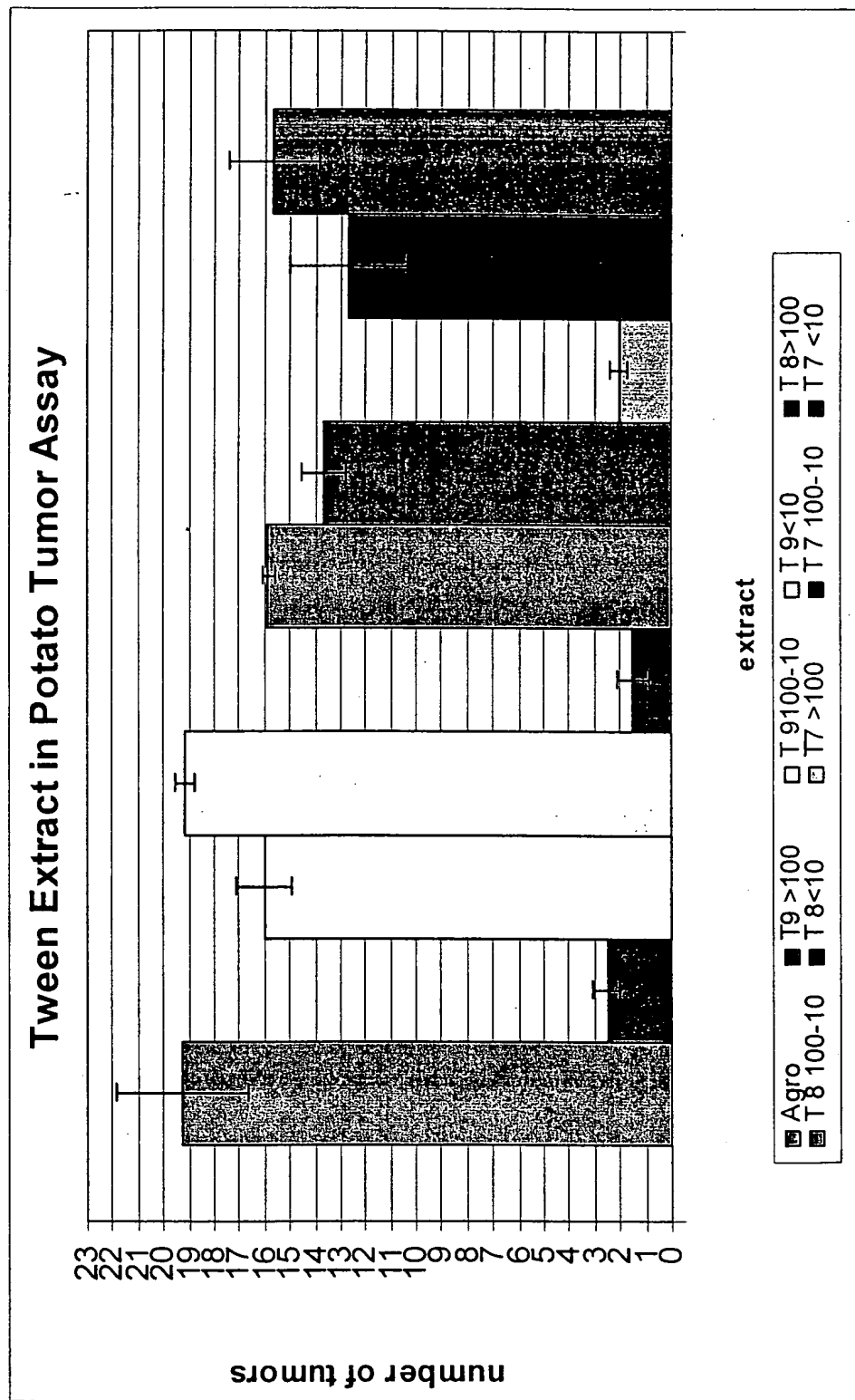


Figure 7. The pH of the Tween extract was altered using 1 N NaOH before filtering. These extracts were tested at a concentration of 1:10. Significant inhibition of potato tumors was seen at the pH 9 >100 K sample, the pH 8 >100 K sample, and the pH 7 >100K sample.

Results (cont.)

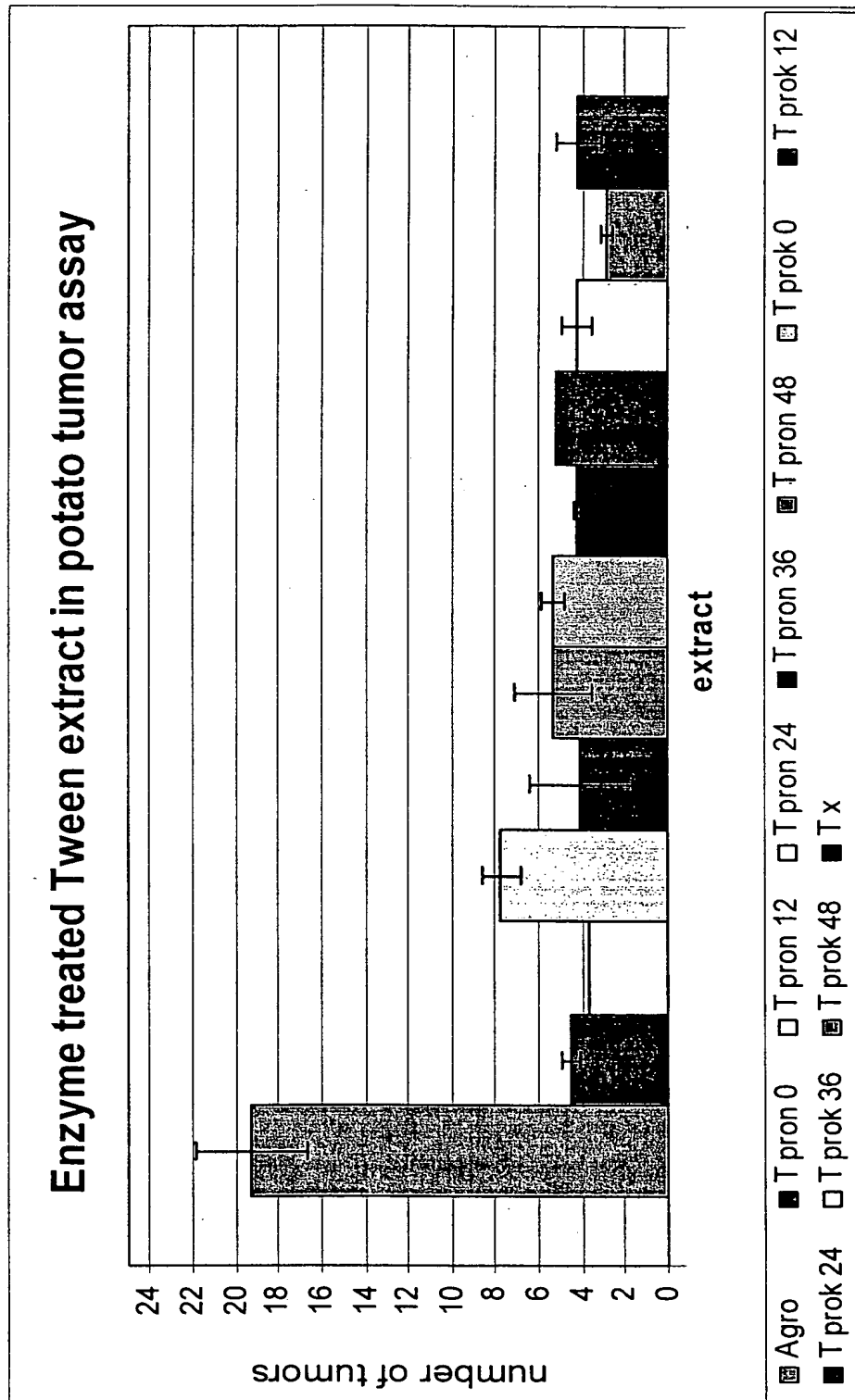


Figure 8. The Tween extract was treated with Pronase and Proteinase K independently and incubated at 37 degrees C for time periods ranging from 0-48 hours. The enzyme activity was halted by incubating tubes at 80 degrees C for 15 minutes. Tx is untreated full strength Tween extract that was incubated along with the other samples for 48 hours. Samples were tested at a concentration of 1:10. No significant change in activity was seen in any sample upon treatment with either proteolytic enzyme.

Results (cont.)

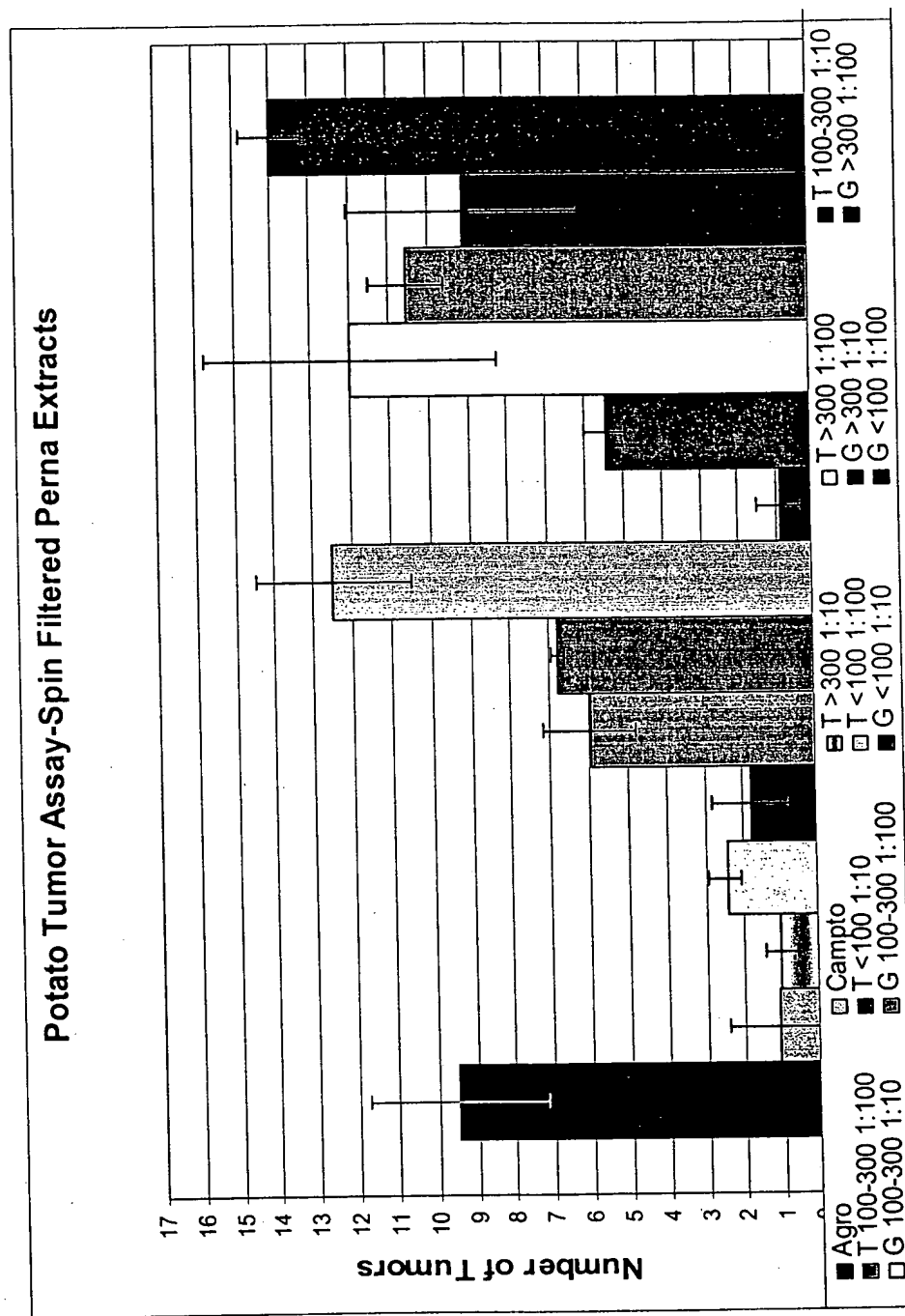


Figure 9. Significant inhibition of tumors was seen with the >300K and 300K-100K fractions of the Tween extract. Significant inhibition of tumors was seen with the >300K fraction of the Glycogen extract. Campito is 0.1ppm Camptothecin.

Potato Tumor Assay-Spin Filtered Glycogen Extract

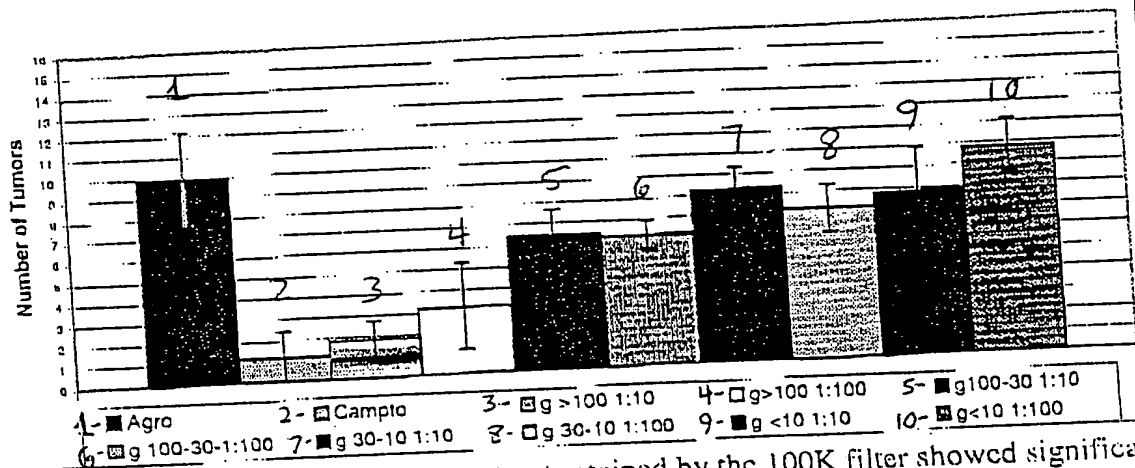


Figure 10 The fraction of Glycogen extract retained by the 100K filter showed significant inhibition of potato tumors at both the 1:10 and 1:100 concentrations. The fraction of Glycogen extract that passed through the 100K filter but was retained by the 30K filter shows slightly significant inhibition of potato tumors at both the 1:10 and 1:100 concentrations.

Glycogen Inhibition in potato tumor assay

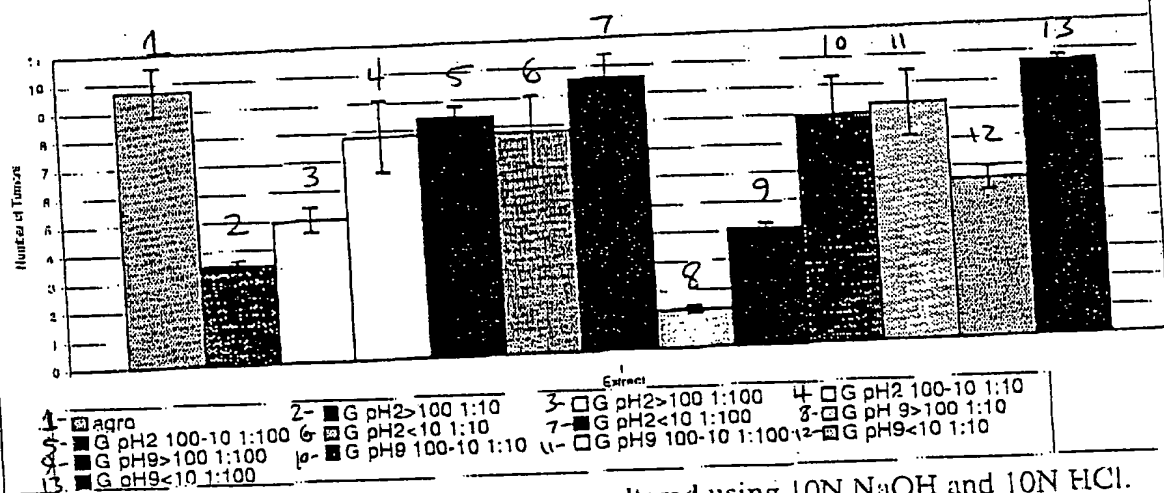


Figure 11. The pH of the Glycogen extract was altered using 10N NaOH and 10N HCl. Significant inhibition of potato tumors was seen at the 1:10 and 1:100 concentrations of the pH 2 >100K sample, at the 1:10 and 1:100 concentrations of the pH 9 >100K sample, and at the 1:10 concentration of the pH 9 <10K sample.

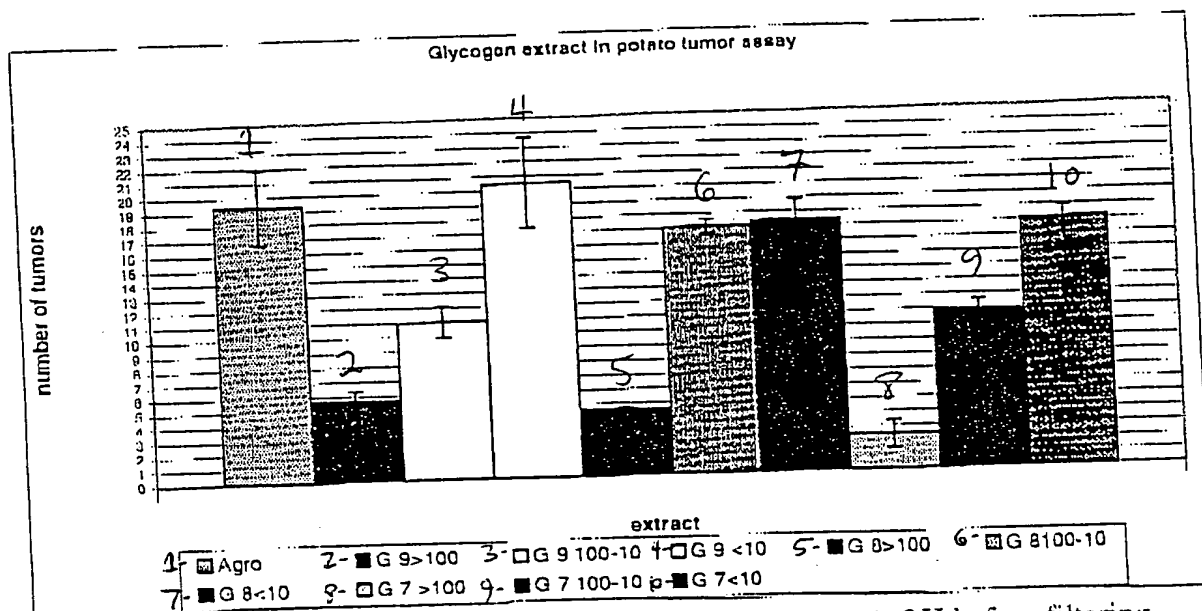


Figure 12. The pH of the Glycogen extract was altered with 1N NaOH before filtering. These extracts were tested at the 1:10 concentration. Significant inhibition of potato tumors was seen at the pH 9 >100K sample, the pH 9 100K-10K sample, the pH 8 >100 K sample, the pH 7 >100 K sample, and the pH 7 100K-10K sample.

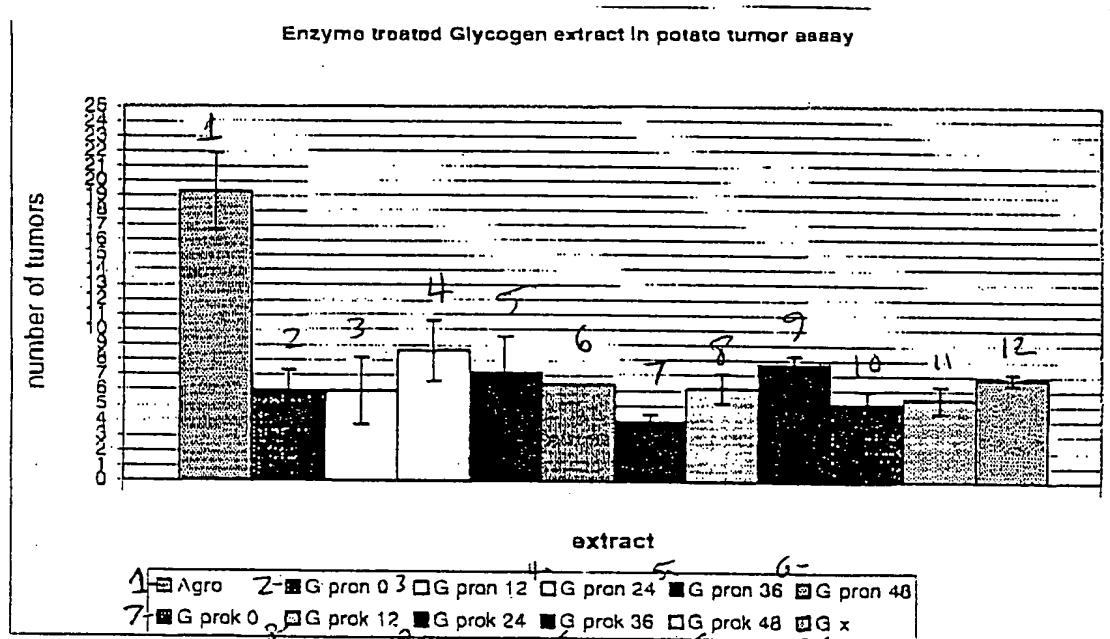


Figure 13. The Glycogen extract was treated with Pronase and Proteinase K independently and incubated at 37 degrees C for time periods ranging from 0-48 hours. The enzyme activity was halted by incubating tubes at 80 degrees C for 15 minutes. Gx is untreated full strength Tween extract that was incubated along with the other samples for 48 hours. Samples were tested at a concentration of 1:10. No significant change in activity was seen in any sample upon treatment with either proteolytic enzyme.

Perna Cytotoxicity on Sifta

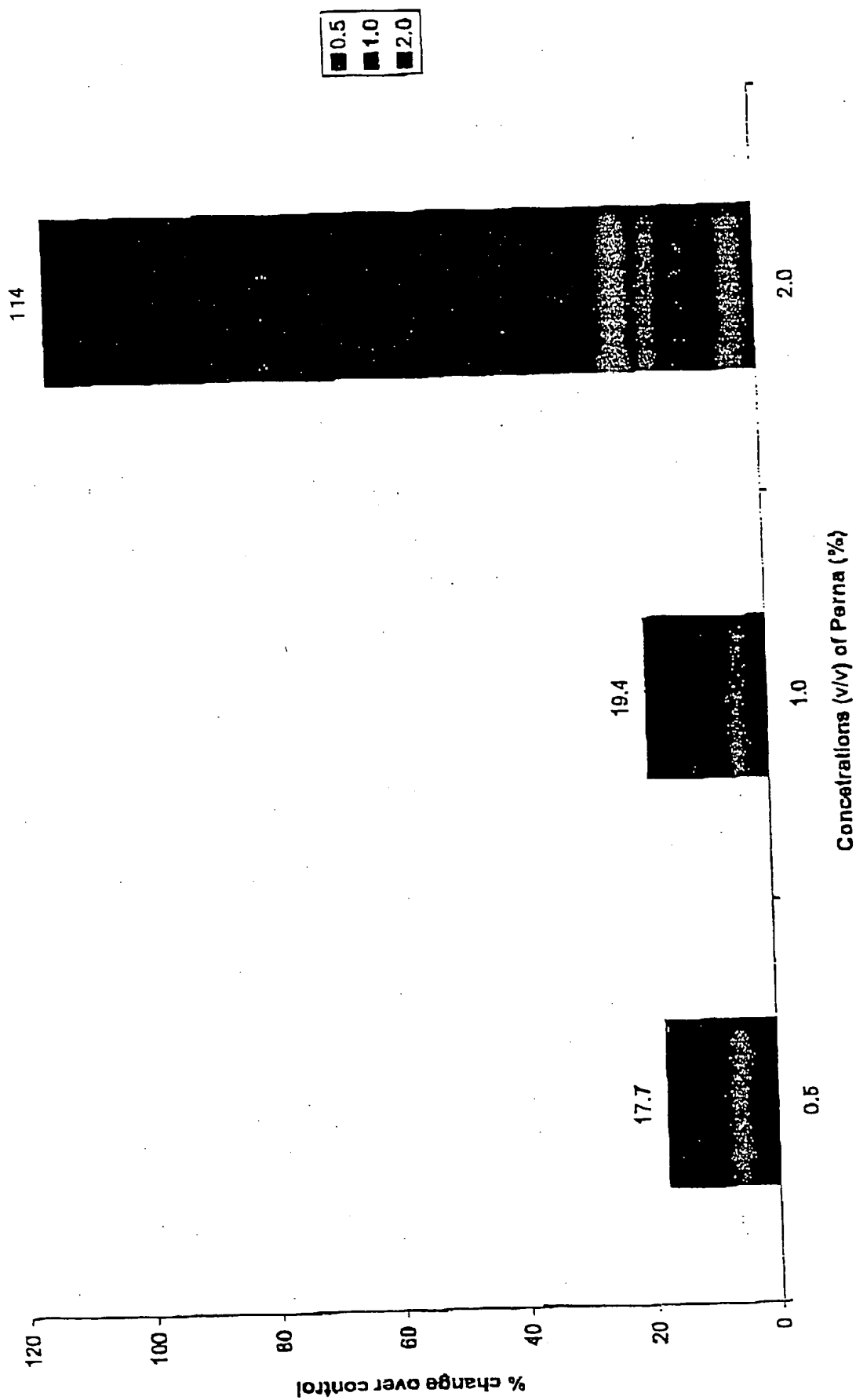


Figure 14

Perna Cytotoxicity on MG-63

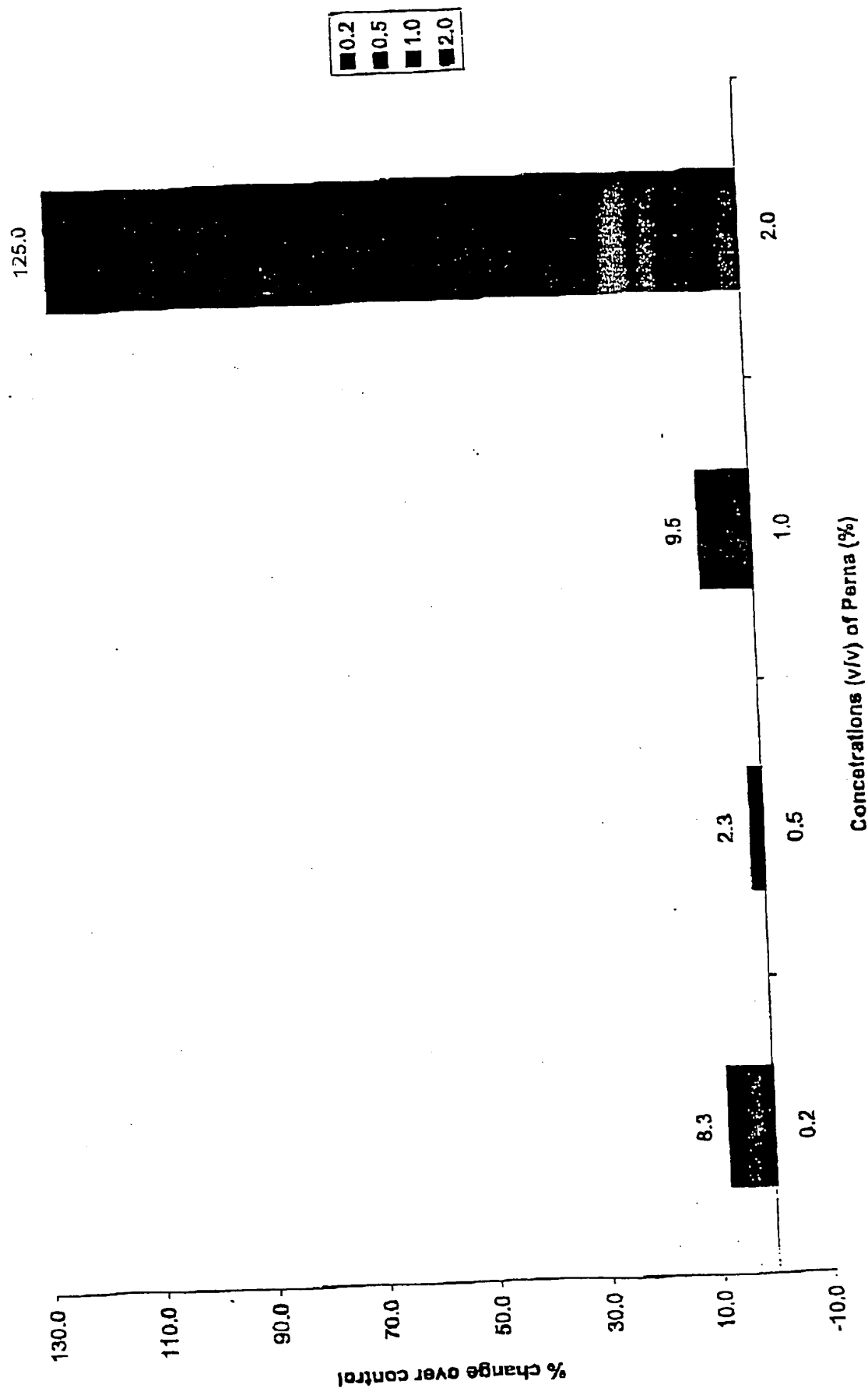


Figure 15